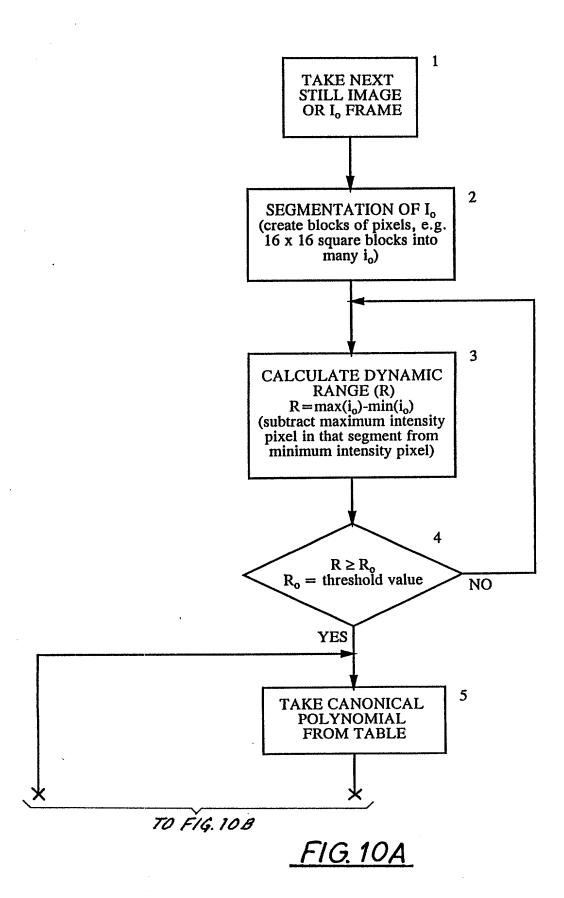


FIG. 9



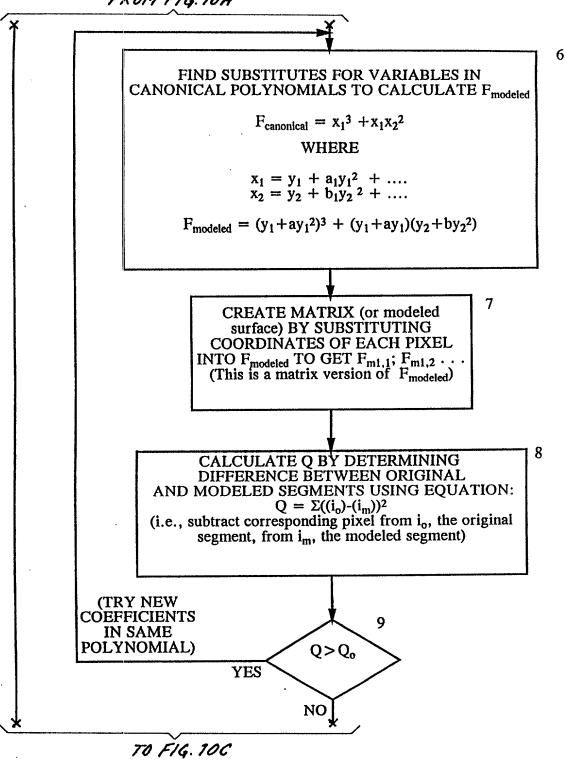


FIG. 10B

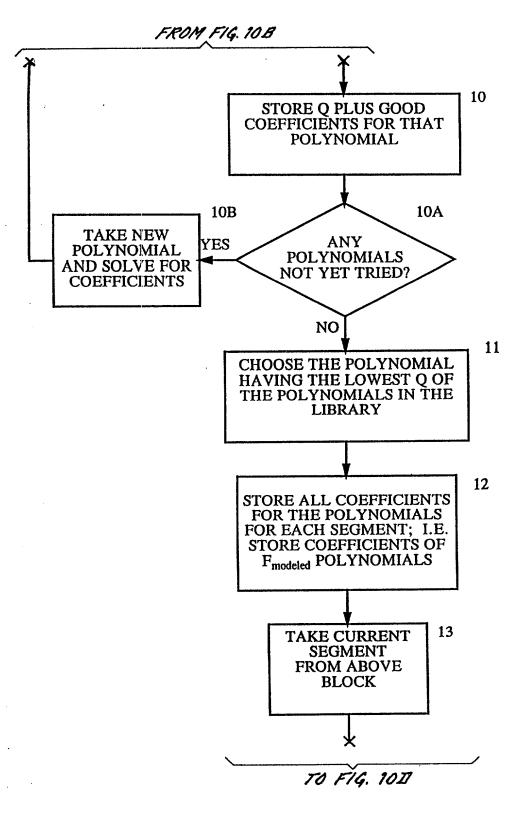
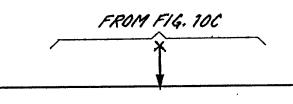


FIG. 10C



14

FIND CONNECTION BETWEEN ADJACENT SEGMENTS
BY EXTENDING SURFACE OF SEGMENT 1 INTO
SEGMENT 2 AND FINDING DIFFERENCE BETWEEN
EXTENDED SURFACE AND SURFACE OF SEGMENT 2.
DO THIS BY FINDING AVERAGE DISTANCE, d,
BETWEEN THE SURFACES. IF AVERAGE DISTANCE d
IS SMALLER THAN A THRESHOLD VALUE, THEN
APPROXIMATE SURFACE OF SEGMENT 2 BY THE
EXTENDED SURFACE, I.E. THROW OUT SEGMENT 2
SURFACE. IF GREATER THAN THRESHOLD, FIND
CONNECTION USING SPLINES (NEXT BLOCK)

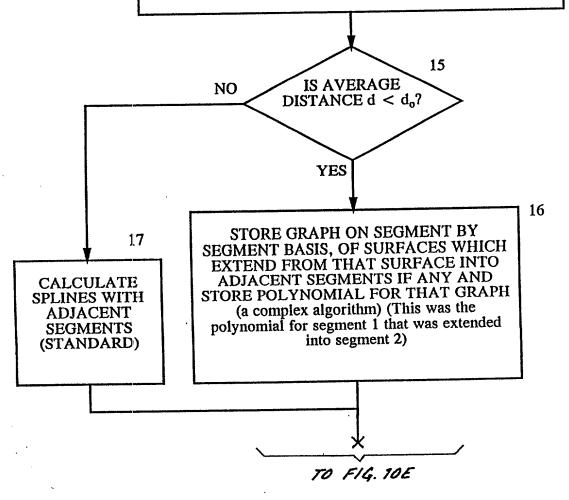


FIG. 10D

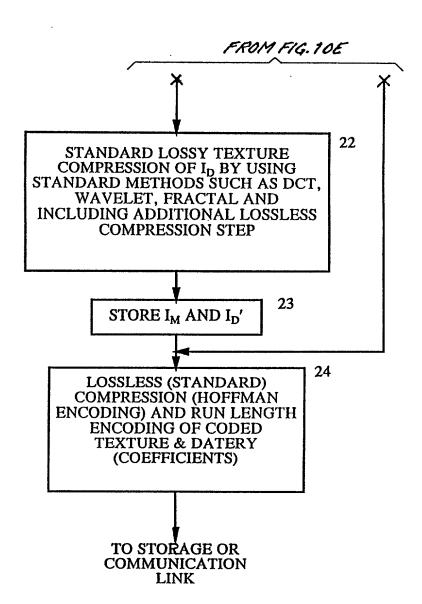


FIG. 10F

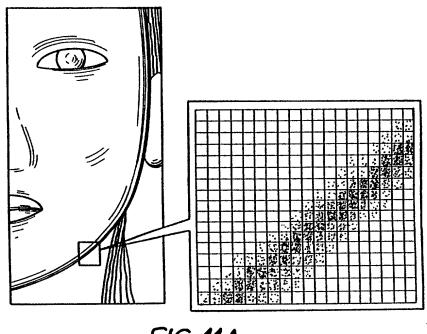
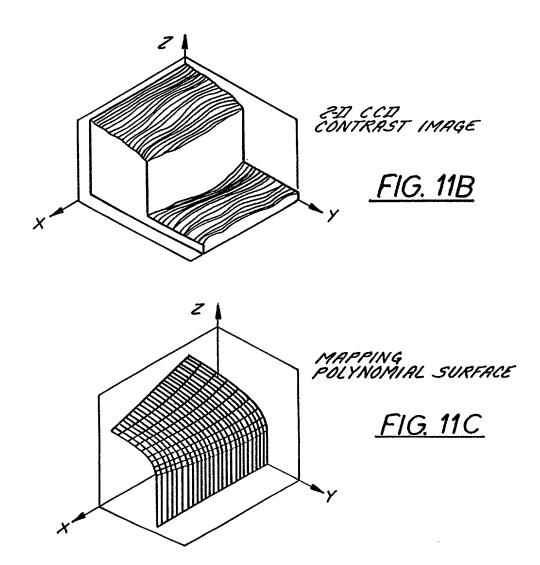


FIG. 11A



PIXEL	FIRST SEGMENT OF ORIGINAL FRAME				SECOND SEGMENT OF		
	1,1	1,2	1,3				
	2,1	2,2	•••			- P	
	• • •						
			-172001277				
   SEGMEN   ORIGINA	17			<u></u>	Ц		

FIG. 12

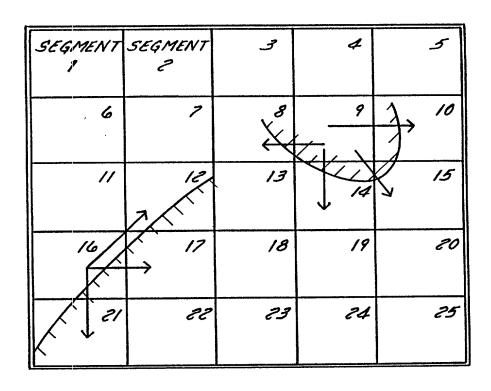
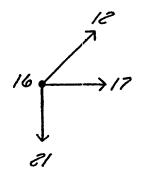
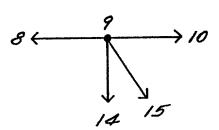


FIG. 13A



GRAPH OF SEGMENT 16'S CONNECTIONS TO ADJACENT SEGMENTS

FIG. 13B



GRAPH OF SEGMENT 9'S CONNECTIONS TO AUTACENT SEGMENTS

FIG. 13C

I pixel 0(1,1)	I pixel "(1,2)	• • •

FIG. 14A

I pixel m(1,1)	I pixel M(1,2)	• • •
	-	

FIG. 14B

I pixel d(1,1)	I pixel d(1,2)	• • •

FIG. 14C

$$\frac{I_{pixel} - I_{pixel}}{o(1,1)} - \frac{I_{pixel}}{m(1,1)} = \frac{I_{pixel}}{d(1,1)}$$

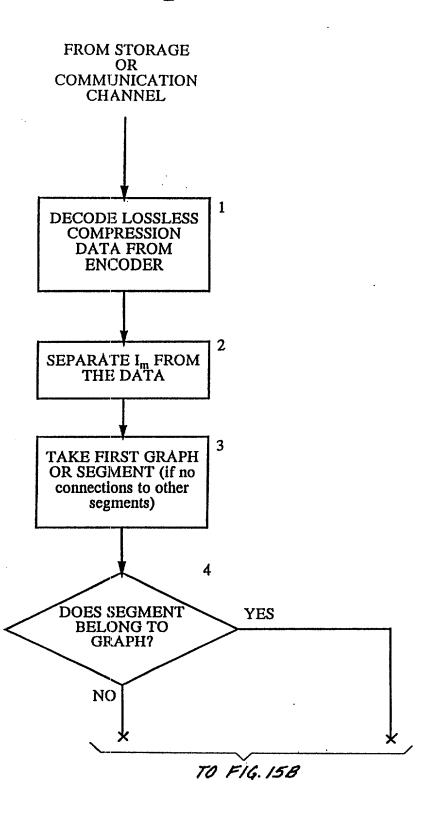


FIG. 15A

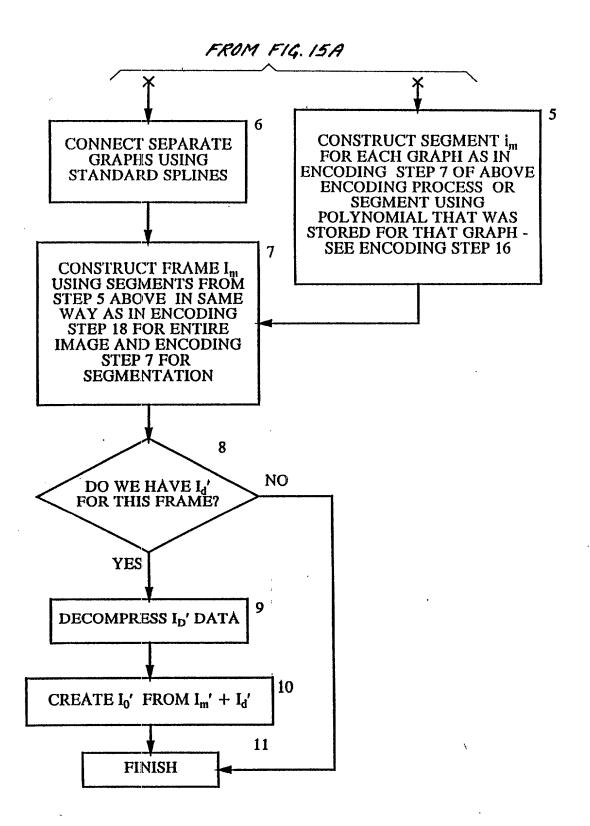


FIG. 15B

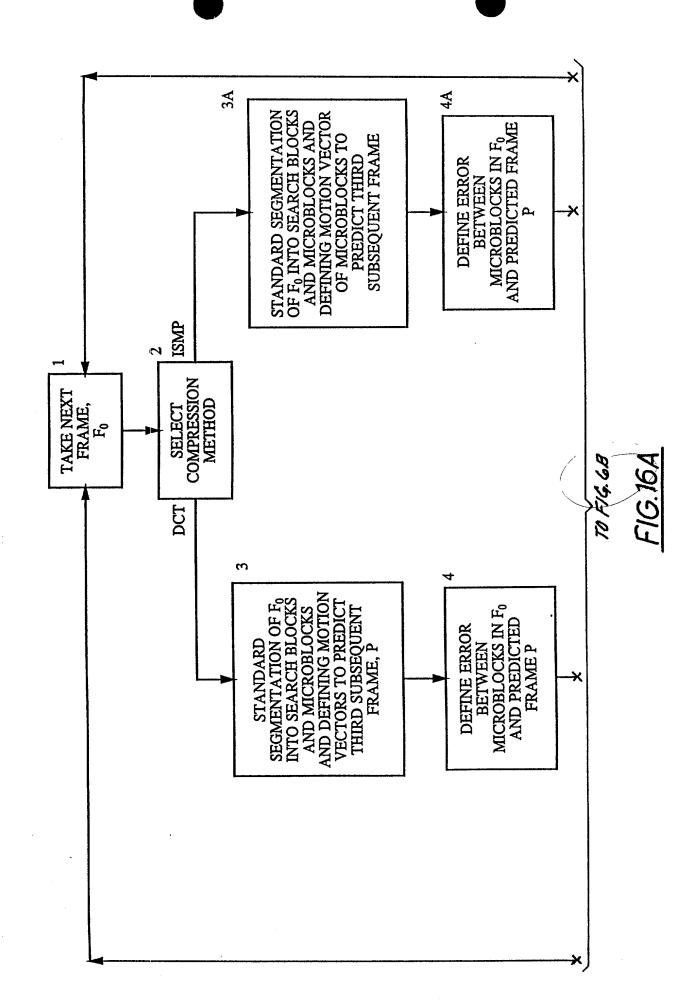
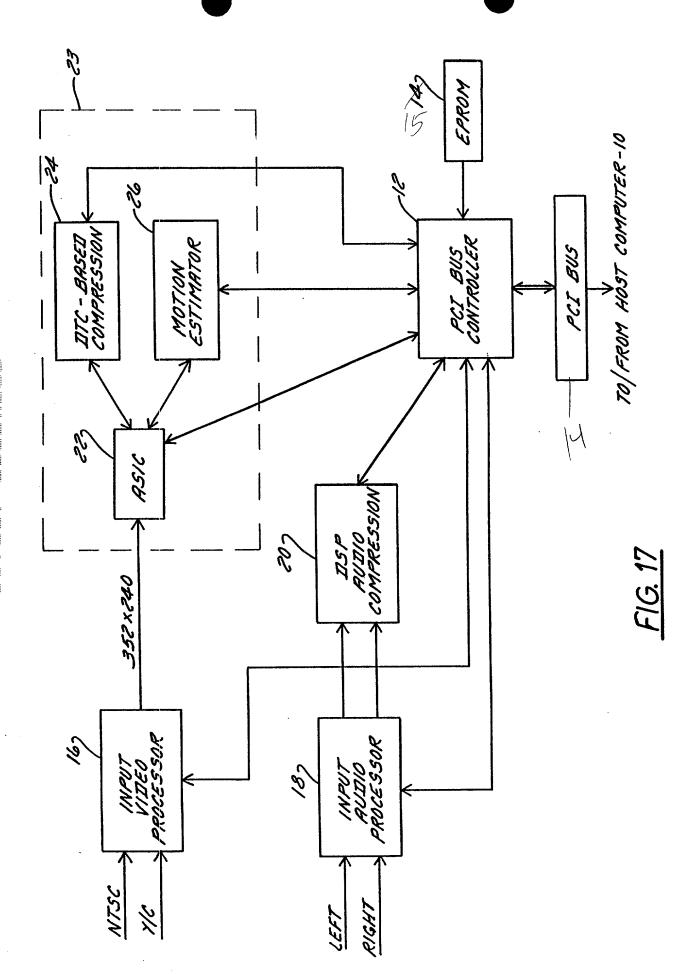


FIG.16B



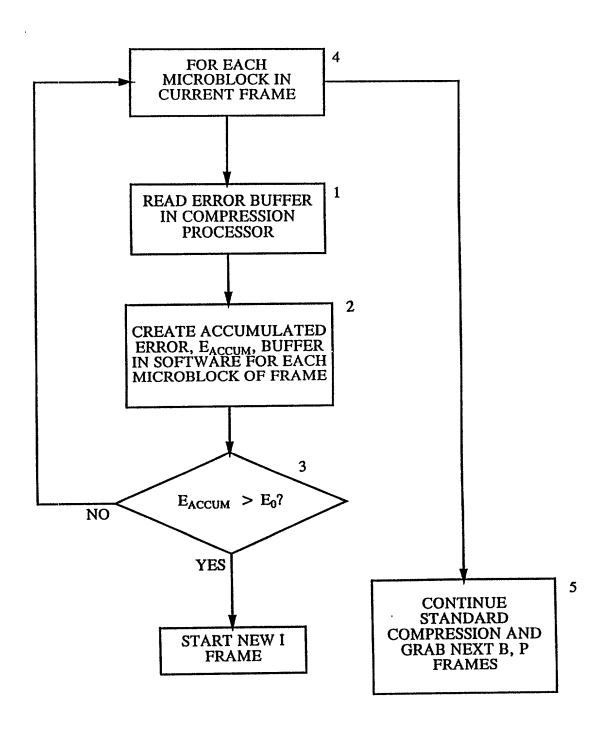


FIG. 18

#	Category	Data Reduction in Fraction of Original	Reduced Data Rate	Object Category Description
1.	A	100%	128 kbps	Original; possibly with noise.
2.	В	75%	96 kbps	Tiny details of the face (or other biological signature, such as a fingerprint or retina); slightly reduced texture; edges remain unchanged.
3.	С	50%	84 kbps	Hardened edges, wrinkles, smooth transitions for face details.
4.	D	25%	32 kbps	Heavily reduced texture, hard edges.
5.	E	10%	12.8 kbps	Hard edges, "cartoon- type" faces.

FIG. 19